

## ABSTRACT

A field-effect transistor includes a semiconductor layer (14), a source electrode (15) and a drain electrode (16) electrically connected to the 5 semiconductor layer (14), and a gate electrode (12) for applying an electric field to the semiconductor layer (14) between the source electrode (15) and the drain electrode (16). The semiconductor layer (14) contains an organic semiconductor material and a plurality of thin wires made of an inorganic semiconductor.